HP ProLiant DL385 G6 Server

Data sheet

Ideal for virtualization, the DL385 G6 Server enables you to deploy more virtual machines with complete IT confidence—giving you greater value for every IT dollar.

Designed with virtualization in mind, the HP ProLiant DL385 G6 features the latest six-core 2400 Series AMD Opteron™ processors and is ideal for demanding workloads that require high levels of performance. The DL385 G6 comes with a large memory footprint, embedded NICs, internal USB, and plenty of PCI expansion slots and internal storage, making it well suited for a wide range of applications and environments.

Other important aspects of the DL385 G6 are its expandability and flexibility. Multiple drive cage options provide internal storage of up to 4.8 TB with 16 SFF drives or up to 6 TB with 6 LFF hard drives, 10 Gigabit NIC support, and a choice of 2 out of 4 PCI riser boards for I/O flexibility. And the new modular Smart Array Controllers deliver blazing performance, up to 200 percent faster than the previous generation, with the flexibility to seamlessly add cache and BBWC.[1]

As always, you can depend on ProLiant for the best in industry-standard management including HP Systems Insight Manager, HP Onboard Administrator, HP Insight Control suite (ICE), and Trusted Platform Module support—all designed to give you the utmost confidence in your business and the ability to squeeze every bit of productivity out of your server infrastructure. HP also helps you achieve power efficiencies within your environment, using technologies such as HP Power Regulator, Power Manager, and Dynamic Power Capping. With over 11,000 ProLiant design and quality tests, you can maximize server productivity for the long haul.

So although the DL385 G6 Server is ideal for virtualization, its flexibility makes it the right fit for any business need, from small businesses to complex dynamic enterprise environments. With the perfect balance of price/performance, flexibility, expandability, reliability, and energy efficiency, the DL385 G6 provides the best return for your budget.

Key features and benefits

Enhanced performance

The DL385 G6 Server now supports high-performing six-core AMD Opteron processors with 6 MB L3 cache. The new processor includes AMD Core Select™, a feature that enables IT managers to turn off one or more software visible cores, helping to fine-tune hardware for specific operating conditions and workloads. As a result, applications can benefit from increased memory bandwidth and cache per core.

[1] Internal HP testing

- Up to two (2) AMD Opteron™ 2400 Series six-core "Istanbul" processors with 6 MB L3 cache enable you to work faster for demanding scale-out applications
- Two HP NC382i Integrated Dual Port Multifunction Gigabit Server Adapters (four ports total) free up PCI slots and support more virtual machines
- 16 DIMMs sockets for up to 128 GB of DDR2-800 MHz deliver a large memory footprint—ideal for memory-intensive applications
- Support for up to 16 SFF or 6 LFF drives gives your system architecture room to grow
- Six PCI slots (standard) with optional PCI-X, x16, or dual port 10GbE risers provide I/O flexibility

Virtual perfection

If you are looking for a reliable server platform for your virtualization projects, the DL385 G6 Server is designed for you.

- Robust memory and NIC features support virtual machines and compute-intensive business needs
- HP Insight Control tools allow you to manage both virtual and physical IT through a single console
- Integrated VMware and XenServer virtualization technology and internal USB help to get virtual machines deployed easily and more securely

Easy management

When you select the DL385 G6 Server as the core of your infrastructure, you are choosing to run your business with confidence. Bringing to you comprehensive management capabilities, it can help you take total control of your infrastructure allowing you to respond quickly to business needs. You can make use of tools such as HP Systems Insight Manager, ProLiant Onboard Administrator (powered by the HP Integrated Lights-Out 2 management processor), and the HP Insight Control suite (ICE) that help reduce downtime and improve productivity.

- HP Insight software deliver the following capabilities:
  - At a "basic" level—it allows you to deploy servers rapidly, proactively monitor system health and performance, optimize power consumption and remotely control your entire server environment from any location.
  - For advanced functionality, you can make use of the HP Insight Dynamics – VSE suite for ProLiant that delivers comprehensive functions for optimizing and balancing resources and workloads in real time.
- The HP Insight Control suite (ICE) with new Dynamic Power Capping technology enables you to improve your server capacity up to 3x by allowing you to fit more servers into your current power envelope
- The ProLiant Onboard Administrator simplifies server setup, health monitoring, power and thermal control, and remote administration
- Integrated Lights-Out (iLO 2) technology embedded allows you to monitor your server from any location, at any time, through a LAN or the Internet
- Front-accessible Systems Insight Display helps to locate hardware errors quickly and enables walk-up system diagnostics—saving administrators' time

Versatility and availability

The DL385 G6 Server is engineered for reliability and ease of ownership, giving you flexible deployment options.

- The highly versatile 2U rack design offers flexibility and easy serviceability
- Optional 2 additional 10Gb NIC ports enable you to future-proof your network
- Choice of four modular configurations—including high wattage x16, legacy PCI-X, and dual port 10GbE riser options—allows you to build your own I/O
- Expandable storage with support for up to 16 Small Form Factor or 6 Large Form Factor drives enables you to meet your storage requirements with ease
- For your internal storage needs, you can rely on any of the new modular Smart Array storage controllers—the HP Smart Array P212, P410, or P411—for seamless upgradability from zero memory to 512 MB BBWC[2]
- The common power slot strategy drives high-efficiency solutions to a common size and connection—resulting in reduced spares
- Hot-plug redundant power supplies and fans provide for greater uptime
- The Trusted Platform Module (TPM) option reduces data security concerns through its support for data encryption

Energy efficiency

The HP DL385 G6 high-efficiency power options allow you to "right-size" based on your configuration requirements and save on energy costs. In addition, you can make use of HP Thermal Logic to take charge of power and cooling across your data center.

- Choice of four power supplies (460W AC, 750W AC, 1200W AC or 1200W DC) gives you the ability to match your specific workload and significantly reduce power wastage
- Dynamic Power Capping—an example of Thermal Logic technology—reallocates power and cooling resources by dynamically "capping" the power drawn by servers, helping you reclaim overprovisioned energy

[2] The HP Smart Array P212 controller does not support 512 MB BBWC

- Power Regulator and Power Meter for ProLiant deliver integrated power monitoring and server-level, policy-based power management with energy efficiency and savings on system power and cooling costs
- Power supply high efficiency mode enables power supplies to operate at peak efficiency under all conditions

Ease of ownership
The DL385 G6 Server is easy to own and manage, with industry-standard tools and components.

- Common ProLiant options and accessories enable you to better manage your IT and your time
- A cable management arm and a quick deploy rail solution make racking a snap
- Tool-free chassis design enhances reliability and allows easy accessibility

Ideal environment

Environments of all types and sizes
While the DL385 G6 Server is ideal for virtualization, it is flexible to support any business need in many environments—from corporate data centers to sophisticated SMBs.

- With its large internal storage capacity of up to 6 TB, the DL385 G6 Server is well suited for everything from Web applications to databases
- It is easily connected to storage networks and managed from one place—cutting down on manageability time

Space-constrained corporate data centers and service providers
- The DL385 G6 packs the storage, memory, and I/O you need into only 2U of rack space
- Availability features such as hot plug redundant power, Advanced ECC memory, and hot plug redundant fans keep environments up and running and users productive

Sophisticated SMB locations
- The DL385 G6 is not just for enterprises. Small and medium businesses with rack environments that can benefit from remote server management or network backup should consider the DL385 G6 Server.

The HP DL385 G6 Server is well-suited for:
- Virtualized environments
- Server-based computing
- Medium scale mail and messaging
- Web and application server
- Small to medium databases
- Terminal services (Citrix)
- File and print
- Data center utility
- (CAD), digital content creation (DCC), and visualization applications

HP Services

When Technology Works, Business Works
The challenge of virtually every IT organization is similar: to develop and maintain an agile, efficient server infrastructure that delivers the service levels your business needs.

HP Technology Services offer a comprehensive portfolio of HP Care Pack Services to help design, deploy, manage, and support your IT environment, enabling cost-effective upgrades to standard warranty with easy-to-buy, easy-to-use support packages.

Minimum Recommended HP Care Pack offerings
- Three-year, same business day, 4-hour response onsite, 24-hour x 7-day coverage, hardware support.
- Hardware Installation plus operating system installation and startup.

Enhanced service level Care Pack offerings
- **Three-year Support Plus 24:** Integrated 24x7 hardware and software operating support.
- **Proactive Select:** Access to HP best-in-class technical consultants. Purchase service credits and obtain expertise when needed.

Benefit from HP Care Pack Services that help you
- Reduce deployment time and manage ProLiant server solutions smoothly and efficiently.
- Increase uptime and performance of server availability to your business.
- Detect, diagnose, and repair problems quickly to save time, money, and resources.

For more information, visit
www.hp.com/services/proliantservices or
www.hp.com/go/proliant/carepack

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www.hp.com/go/hpfinancialservices

For more information

For more information on the HP ProLiant DL385 G6 Server, contact your local representative or visit:
www.hp.com/servers/dl385-g6

Technical specifications

HP ProLiant DL385 G6 Server

Processor Type	AMD Opteron™ 2400 Series
Available Processors	Six-Core Processors AMD Opteron™ Processor Model 2435 (2.6 GHz, 6 MB Level 3 Cache, 75W) AMD Opteron™ Processor Model 2431 (2.4 GHz, 6 MB Level 3 Cache, 75W) AMD Opteron™ Processor Model 2427 (2.2 GHz, 6 MB Level 3 Cache, 75W) AMD Opteron™ Processor Model 2425HE (2.1 GHz, 6 MB Level 3 Cache, 55W)
Processor Core	6-Core
Cache Memory	6 MB Level 3 Cache
Max Processor Speed	2.6 GHz
Multi-processor	2
Memory Type	PC2-6400 (800 MHz)
Standard Memory	4 GB (2 x 2 GB) Entry/HE; 8 GB (2 x 4 GB) Base; 16 GB (4 x 4 GB) Performance
Max Memory	128 GB (16 x 8 GB) (with optional second drive cage)
Advanced Memory Protection	Advanced ECC
Storage Type	Hot plug 2.5-inch SAS/SATA Hot plug 3.5-inch SAS/SATA
Number of Hard Drives	16 SFF (with optional second drive cage) or 6 LFF (with optional drive cage)
Removable Media Bays	1
Expansion Slot	Six (6) PCI slots—optional PCI-X/PCI-Express, x16 PCI, or dual port 10GbE risers
Storage Controller	Smart Array Controller in PCI-E slot: P410/512 BBWC (Performance); P410/256 (Base); P410 (Entry/HE)
Deployment	
Form Factor	Rack
Rack Height	2U
Networking	Two HP NC382i Integrated Dual Port Multifunction Gigabit Server Adapters (four ports total)
Remote Management	Integrated Lights Out 2 (iLO 2)
Redundant Power Supply	Redundant standard on performance models, optional on entry and base models
Redundant Fans	Redundant standard
Warranty	3-year parts/3-year labor/3-year onsite

Technology for better business outcomes

To learn more, visit www.hp.com/servers/dl385-g6

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